

# Demolition of Charlotte Coliseum

North Carolina, USA, June 2007

The historic Charlotte Coliseum was demolished in a spectacular 13-second implosion, leaving only a pile of metal, concrete, and rubble.

ASI contributed significantly to the success of this event using its breakthrough technology: Extreme Loading® for Structures.

ASI submitted a full simulation to the developer, the general contractor, and the demolition contractor (Dykon Blasting Corp.) prior to the actual demolition. This proves our ability to accurately predict the progressive collapse of a structure prior to an actual implosion or other extreme loading threat.

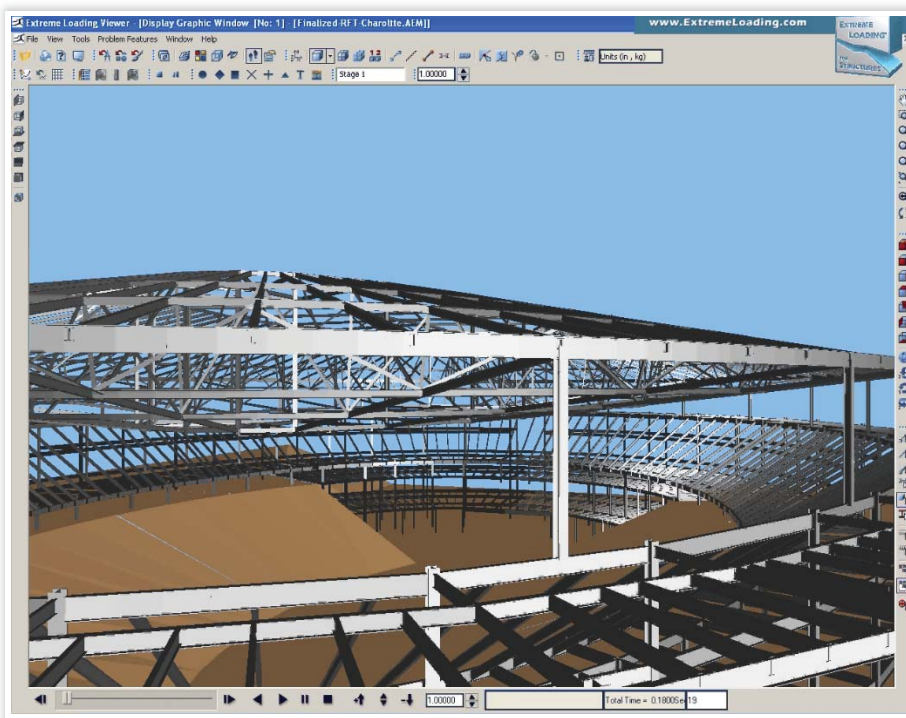


Using original construction plans, the structure was modeled taking all the structural elements into consideration:

- Steel columns and girders
- Dome truss
- Reinforced concrete slabs

All the demolition preparations and existing conditions were taken into consideration, such as:

- Sloped terrain.
- Cuts and v-cuts in the steel sections and columns.
- Weakening of the structure.
- Precise timing of the removal for column groups and dome elements.



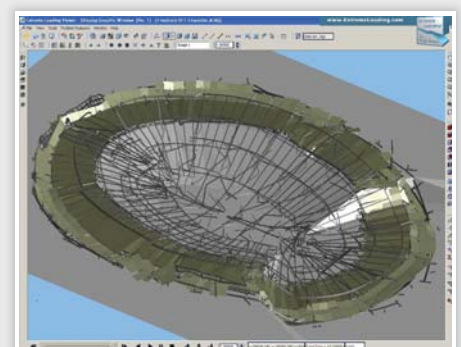
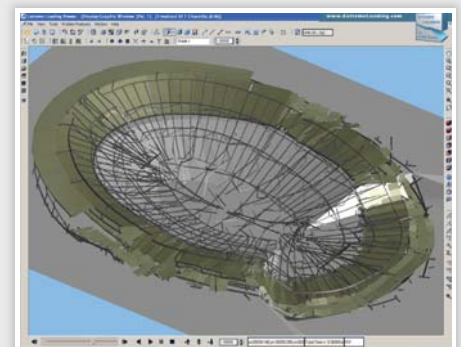
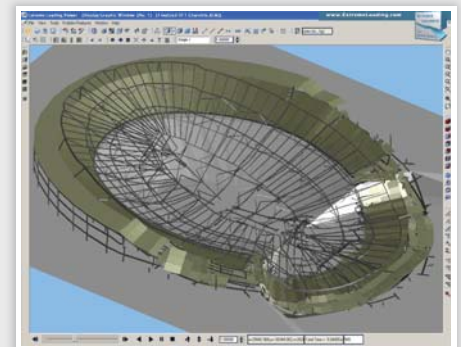
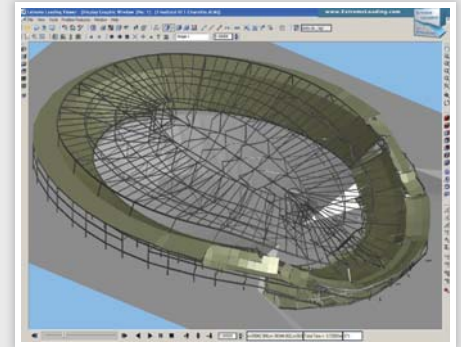
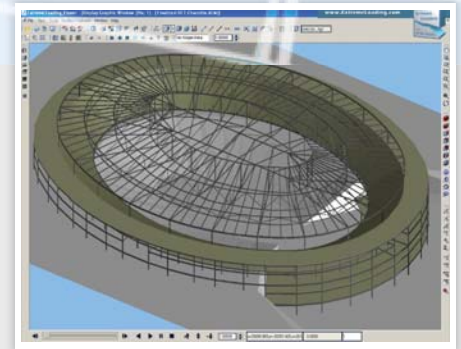
The ASI simulation was used to:

- Plan the actual demolition.
- Modify some details regarding the demolition sequence.
- Provide assurance for the developer, contractor, and the public regarding the safety of the demolition sequence.

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Demolition Sequence